

OIEP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/863,823

DATE: 06/08/2001

TIME: 17:03:03

Input Set : A:\LEX180 SEQ LIST.txt

Output Set: N:\CRF3\06082001\I863823.raw

ENTERED

4 <110> APPLICANT: Walke, D. Wade
 5 Scoville, John
 6 Donoho, Gregory
 7 Turner, C. Alexander Jr.
 9 <120> TITLE OF INVENTION: Novel Human Proteins and Polynucleotides Encoding the Same
 11 <130> FILE REFERENCE: LEX-0180-USA
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/863,823
 C--> 13 <141> CURRENT FILING DATE: 2001-05-23
 13 <150> PRIOR APPLICATION NUMBER: US 60/206,414
 14 <151> PRIOR FILING DATE: 2000-05-23
 16 <160> NUMBER OF SEQ ID NOS: 9
 18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 765
 22 <212> TYPE: DNA
 23 <213> ORGANISM: homo sapiens
 25 <400> SEQUENCE: 1
 26 atgcdaatgg gaagatttct tctcttagta attttatttc tgccacgtga gatgacaagt 60
 27 tctgttttaa ctgtgaatgg taaaactgag aactatatcc tggatactac acctggctcc 120
 28 caagcatctc tgatatgtgc tgttcaaaac cacaccagag aggaagaact gctctgttac 180
 29 cgagaggagg ggagagtggg tttgaaatct gsaaacaama tcaattccag ctctgtctgt 240
 30 gtctcttcca tcagtgaaaa tgacaacgga atcagcttta cctgcaggct ggggagggat 300
 31 cagtccgtgt ccgtttcggg ggtgctgaat gttacttttc ctctctctct aagtggaaac 360
 32 gacttccaaa cagttgagga aggcagtaat gtgaagtggg tttgcaatgt gaaagccaac 420
 33 ccccaggctc aaatgatgtg gtacaaaaac agtagtctcc tcgatttaga gaaaagccgt 480
 34 caccdaatcc aacagacaag tgagtctttt cagctgtcaa tcaccaaagt cgagaagcct 540
 35 gacaacggaa cctacagttg tattgcaaag tcatctctga aaacggagag cttggacttt 600
 36 caccctgattg ttaaagataa aactgtgggt gtaccaatag agcccattat tgctgcatgt 660
 37 gttgtagatc ttctgacatt gtgcttttga ctgattgcta gaagaaagaa aataatgaag 720
 38 ctctgcatga aggataaaga cctcacagt gaaacagctc tatga 765
 40 <210> SEQ ID NO: 2
 41 <211> LENGTH: 254
 42 <212> TYPE: PRT
 43 <213> ORGANISM: homo sapiens
 45 <400> SEQUENCE: 2
 46 Met Gln Met Gly Arg Phe Leu Leu Leu Val Ile Leu Phe Leu Pro Arg
 47 1 5 10 15
 48 Glu Met Thr Ser Ser Val Leu Thr Val Asn Gly Lys Thr Glu Asn Tyr
 49 20 25 30
 50 Ile Leu Asp Thr Thr Pro Gly Ser Gln Ala Ser Leu Ile Cys Ala Val
 51 35 40 45
 52 Gln Asn His Thr Arg Glu Glu Leu Leu Trp Tyr Arg Glu Glu Gly
 53 50 55 60
 54 Arg Val Asp Leu Lys Ser Gly Asn Lys Ile Asn Ser Ser Ser Val Cys
 55 65 70 75 80
 56 Val Ser Ser Ile Ser Glu Asn Asp Asn Gly Ile Ser Phe Thr Cys Arg
 57 85 90 95

RAW SEQUENCE LISTING

DATE: 06/08/2001

PATENT APPLICATION: US/09/863,823

TIME: 17:03:03

Input Set : A:\LEX180 SEQ LIST.txt

Output Set: N:\CRF3\06082001\I863823.raw

```

58 Leu Gly Arg Asp Gln Ser Val Ser Val Ser Val Val Leu Asn Val Thr
59           100           105           110
60 Phe Pro Pro Leu Leu Ser Gly Asn Asp Phe Gln Thr Val Glu Glu Gly
61           115           120           125
62 Ser Asn Val Lys Leu Val Cys Asn Val Lys Ala Asn Pro Gln Ala Gln
63           130           135           140
64 Met Met Trp Tyr Lys Asn Ser Ser Leu Leu Asp Leu Glu Lys Ser Arg
65 145           150           155           160
66 His Gln Ile Gln Gln Thr Ser Glu Ser Phe Gln Leu Ser Ile Thr Lys
67           165           170           175
68 Val Glu Lys Pro Asp Asn Gly Thr Tyr Ser Cys Ile Ala Lys Ser Ser
69           180           185           190
70 Leu Lys Thr Glu Ser Leu Asp Phe His Leu Ile Val Lys Asp Lys Thr
71           195           200           205
72 Val Gly Val Pro Ile Glu Pro Ile Ile Ala Ala Cys Val Val Ile Phe
73           210           215           220
74 Leu Thr Leu Cys Phe Gly Leu Ile Ala Arg Arg Lys Lys Ile Met Lys
75 225           230           235           240
76 Leu Cys Met Lys Asp Lys Asp Pro His Ser Glu Thr Ala Leu
77           245           250

```

79 <E10> SEQ ID NO: 3

80 <E11> LENGTH: 633

81 <E12> TYPE: DNA

82 <E13> ORGANISM: homo sapiens

84 <400> SEQUENCE: 3

```

85 atgcaaatgg gaagatttct tctcttagta attttatttc tgccacgtga gatgacaagt      60
86 tctgttttaa ctgtgaatgg taaaactgag aactatatcc tggatactac acctggctcc      120
87 caagatcttc tgatatgtgc tgttcaaaac cacaccagag aggaagaact gctctggtac      180
88 cgagaggagg ggagagtggg tttgaaatct gsaaacaama tcaattccag ctctgtctgt      240
89 gtctcttcca tcagtgaaaa tgacaacgga atcagcttta cctgcaggct ggggagggat      300
90 cagtccgtgt ccgtttcggg ggtgctgaat gttacttttc ctctctctct aagtggaaac      360
91 gacttccaaa caqttgagga aggcagtaat gtgaagttgg tttgcaatgt gaaagccaac      420
92 ccccaggctc aaatgatgtg gtacaaaaac agtagtctcc tcgatttaga gaaaagccgt      480
93 caccuaatcc aacagacaag tgagtctttt cagctgtcaa tcaccaaagt cgagaagcct      540
94 gacaaacggaa cctacagttg tattgcaaag tcatctctga aaacggagag cttggacttt      600
95 cacctgattg ttaaagctct gcatgaagga taa                                     633

```

97 <E10> SEQ ID NO: 4

98 <E11> LENGTH: 210

99 <E12> TYPE: PRT

100 <E13> ORGANISM: homo sapiens

102 <400> SEQUENCE: 4

```

103 Met Gln Met Gly Arg Phe Leu Leu Leu Val Ile Leu Phe Leu Pro Arg
104 1           5           10           15
105 Glu Met Thr Ser Ser Val Leu Thr Val Asn Gly Lys Thr Glu Asn Tyr
106           20           25           30
107 Ile Leu Asp Thr Thr Pro Gly Ser Gln Ala Ser Leu Ile Cys Ala Val
108           35           40           45
109 Gln Asn His Thr Arg Glu Glu Leu Leu Trp Tyr Arg Glu Glu Gly
110           50           55           60

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/863,823

DATE: 06/08/2001

TIME: 17:03:03

Input Set : A:\LEX180 SEQ LIST.txt

Output Set: N:\CRF3\06082001\I863823.raw

```

111 Arg Val Asp Leu Lys Ser Gly Asn Lys Ile Asn Ser Ser Ser Val Cys
112 65              70              75              80
113 Val Ser Ser Ile Ser Glu Asn Asp Asn Gly Ile Ser Phe Thr Cys Arg
114              85              90              95
115 Leu Gly Arg Asp Gln Ser Val Ser Val Ser Val Val Leu Asn Val Thr
116              100             105             110
117 Phe Pro Pro Leu Leu Ser Gly Asn Asp Phe Gln Thr Val Glu Glu Gly
118              115             120             125
119 Ser Asn Val Lys Leu Val Cys Asn Val Lys Ala Asn Pro Gln Ala Gln
120              130             135             140
121 Met Met Trp Tyr Lys Asn Ser Ser Leu Leu Asp Leu Glu Lys Ser Arg
122 145              150              155              160
123 His Gln Ile Gln Gln Thr Ser Glu Ser Phe Gln Leu Ser Ile Thr Lys
124              165              170              175
125 Val Glu Lys Pro Asp Asn Gly Thr Tyr Ser Cys Ile Ala Lys Ser Ser
126              180             185             190
127 Leu Lys Thr Glu Ser Leu Asp Phe His Leu Ile Val Lys Ala Leu His
128              195             200             205
129 Glu Gly
130      210

```

132 <210> SEQ ID NO: 5

133 <211> LENGTH: 789

134 <212> TYPE: DNA

135 <213> ORGANISM: homo sapiens

137 <400> SEQUENCE: 5

```

138 atggcatgga agagcagtg cataatgcar atgggaagat ttcttctctt agtaatttta      60
139 ttcttgccac gtgagatgac aagttctggt ttaactgtga atggtaaaac tgagaactat      120
140 atcctggata ctacacctgg ctcccaagca tctctgatat gtgctgttca aaaccacacc      180
141 agagaggaag aactgctctg gtaccgagag gaggggagag tggatttgaa atctgsaaac      240
142 aamatcaatt ccagctctgt ctgtgtctct tccatcagtg aaaatgacaa cggaatcagc      300
143 ttttaactgca ggctggggag ggatcagtcg gtgtccggtt cgggtgtgct gaatgttact      360
144 ttctctctct tcttaagtgg aaacgacttc caaacagttg aggaaggcag taatgtgaag      420
145 ttgggtttgca atgtgaaagc caacccccag gctcaaatga tgtgtgacaa aaacagtagt      480
146 ctctctcgatt tagagaaaag ccgtcaccaa atccaacaga caagtgaagc ttttcagctg      540
147 tcaatcacca aagtcgagaa gcctgacaac ggaacctaca gttgtattgc aaagtcattc      600
148 ctgaaaacgg agagcttgga ctttcacctg attgttaaag ataaaactgt ggggtgtacca      660
149 atagagccca ttattgctgc atgtgttggt atctttctga cattgtgctt tggactgatt      720
150 gctagaagaa agaaaataat gaagctctgc atgaaggata aagaccctca cagtgaagaa      780
151 gctctatga

```

153 <210> SEQ ID NO: 6

154 <211> LENGTH: 262

155 <212> TYPE: PRT

156 <213> ORGANISM: homo sapiens

158 <400> SEQUENCE: 6

```

159 Met Ala Trp Lys Ser Ser Val Ile Met Gln Met Gly Arg Phe Leu Leu
160 1      5      10      15
161 Leu Val Ile Leu Phe Leu Pro Arg Glu Met Thr Ser Ser Val Leu Thr
162      20      25      30
163 Val Asn Gly Lys Thr Glu Asn Tyr Ile Leu Asp Thr Thr Pro Gly Ser

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/863,823

DATE: 06/08/2001

TIME: 17:03:03

Input Set : A:\LEX180 SEQ LIST.txt

Output Set: N:\CRF3\06082001\I863823.raw

```

164          35          40          45
165 Gln Ala Ser Leu Ile Cys Ala Val Gln Asn His Thr Arg Glu Glu Glu
166          50          55          60
167 Leu Leu Trp Tyr Arg Glu Glu Gly Arg Val Asp Leu Lys Ser Gly Asn
168 65          70          75          80
169 Lys Ile Asn Ser Ser Ser Val Cys Val Ser Ser Ile Ser Glu Asn Asp
170          85          90          95
171 Asn Gly Ile Ser Phe Thr Cys Arg Leu Gly Arg Asp Gln Ser Val Ser
172          100          105          110
173 Val Ser Val Val Leu Asn Val Thr Phe Pro Pro Leu Leu Ser Gly Asn
174          115          120          125
175 Asp Phe Gln Thr Val Glu Glu Gly Ser Asn Val Lys Leu Val Cys Asn
176          130          135          140
177 Val Lys Ala Asn Pro Gln Ala Gln Met Met Trp Tyr Lys Asn Ser Ser
178 145          150          155          160
179 Leu Leu Asp Leu Glu Lys Ser Arg His Gln Ile Gln Gln Thr Ser Glu
180          165          170          175
181 Ser Phe Gln Leu Ser Ile Thr Lys Val Glu Lys Pro Asp Asn Gly Thr
182          180          185          190
183 Tyr Ser Cys Ile Ala Lys Ser Ser Leu Lys Thr Glu Ser Leu Asp Phe
184          195          200          205
185 His Leu Ile Val Lys Asp Lys Thr Val Gly Val Pro Ile Glu Pro Ile
186          210          215          220
187 Ile Ala Ala Cys Val Val Ile Phe Leu Thr Leu Cys Phe Gly Leu Ile
188 225          230          235          240
189 Ala Arg Arg Lys Lys Ile Met Lys Leu Cys Met Lys Asp Lys Asp Pro
190          245          250          255
191 His Ser Glu Thr Ala Leu
192          260

```

194 <210> SEQ ID NO: 7

195 <211> LENGTH: 657

196 <212> TYPE: DNA

197 <213> ORGANISM: homo sapiens

199 <400> SEQUENCE: 7

```

200 atggcatgga agagcagtgt cataatgcar atgggaagat ttcttctctt agtaatttta      60
201 tttctgccac gtgagatgac aagttctgtt ttaactgtga atggtaaaac tgagaactat      120
202 atcttgata ctacacctgg ctccaagca tctctgatat gtgctgttca aaaccacacc      180
203 agagaggaag aactgctctg gtaccgagag gaggggagag tggatttgaa atctgsaaac      240
204 aamatcaatt ccagctctgt ctgtgtctct tccatcagtg aaaatgacaa cggaatcagc      300
205 tttacctgca ggctggggag ggatcagtcg gtgtccgttt cggtggtgct gaatgttact      360
206 tttctctctc tcttaagtgg aaacgacttc caaacagttg aggaaggcag taatgtgaag      420
207 ttggtttgca atgtgaaagc caacccccag gctcaaatga tgtggtacaa aaacagtagt      480
208 ctctctgatt tagagaaaag ccgtcaccaa atccaacaga caagtgagtc ttttcagctg      540
209 tcaatcacca aagtcgagaa gcctgacaac ggaacctaca gttgtattgc aaagtcattc      600
210 ctgaaaacgg agagcttgga ctttcacctg attgttaaa gctctgcatga aggataa      657

```

212 <210> SEQ ID NO: 8

213 <211> LENGTH: 218

214 <212> TYPE: PRT

215 <213> ORGANISM: homo sapiens

RAW SEQUENCE LISTING

DATE: 06/08/2001

PATENT APPLICATION: US/09/863,823

TIME: 17:03:03

Input Set : A:\LEX180 SEQ LIST.txt

Output Set: N:\CRF3\06082001\I863823.raw

217 <400> SEQUENCE: 8
 218 Met Ala Trp Lys Ser Ser Val Ile Met Gln Met Gly Arg Phe Leu Leu
 219 1 5 10 15
 220 Leu Val Ile Leu Phe Leu Pro Arg Glu Met Thr Ser Ser Val Leu Thr
 221 20 25 30
 222 Val Asn Gly Lys Thr Glu Asn Tyr Ile Leu Asp Thr Thr Pro Gly Ser
 223 35 40 45
 224 Gln Ala Ser Leu Ile Cys Ala Val Gln Asn His Thr Arg Glu Glu Glu
 225 50 55 60
 226 Leu Leu Trp Tyr Arg Glu Gly Arg Val Asp Leu Lys Ser Gly Asn
 227 65 70 75 80
 228 Lys Ile Asn Ser Ser Ser Val Cys Val Ser Ser Ile Ser Glu Asn Asp
 229 85 90 95
 230 Asn Gly Ile Ser Phe Thr Cys Arg Leu Gly Arg Asp Gln Ser Val Ser
 231 100 105 110
 232 Val Ser Val Val Leu Asn Val Thr Phe Pro Pro Leu Leu Ser Gly Asn
 233 115 120 125
 234 Asp Phe Gln Thr Val Glu Glu Gly Ser Asn Val Lys Leu Val Cys Asn
 235 130 135 140
 236 Val Lys Ala Asn Pro Gln Ala Gln Met Met Trp Tyr Lys Asn Ser Ser
 237 145 150 155 160
 238 Leu Leu Asp Leu Glu Lys Ser Arg His Gln Ile Gln Gln Thr Ser Glu
 239 165 170 175
 240 Ser Phe Gln Leu Ser Ile Thr Lys Val Glu Lys Pro Asp Asn Gly Thr
 241 180 185 190
 242 Tyr Ser Cys Ile Ala Lys Ser Ser Leu Lys Thr Glu Ser Leu Asp Phe
 243 195 200 205
 244 His Leu Ile Val Lys Ala Leu His Glu Gly
 245 210 215

247 <210> SEQ ID NO: 9

248 <211> LENGTH: 1256

249 <212> TYPE: DNA

250 <213> ORGANISM: homo sapiens

252 <400> SEQUENCE: 9

253 caaaaccaac tgcactatct ttcccttcag aggaacagtt ggccaaggaa gtcagcttct 60
 254 cagagctcaa gagtagatct gagtttaact cattaaagat ggcattggaag agcagtgtca 120
 255 taatgcarat gggaagatct cttctcttag taattttatt tctgccacgt gagatgacaa 180
 256 gttctgtttt aactgtgaat ggtaaaactg agaactatat cctggatact acacctggct 240
 257 cccaagcatc tctgatatgt gctgttcaaa accacaccag agaggaagaa ctgctctggt 300
 258 accgagagga ggggagagtg gatttgaaat ctgsaaacaa matcaattcc agctctgtct 360
 259 gtgtctcttc catcagtgaa aatgacaacg gaatcagctt tacctgcagg ctggggaggg 420
 260 atcagtcocgt gtccgtttcg gtggtgctga atgttacttt tcctcctctc ctaagtggaa 480
 261 acgacttcca aacagttgag gaaggcagta atgtgaagtt ggtttgcaat gtgaaaagcca 540
 262 acccccaggc tcaaatgatg tggtaaaaaa acagtagtct cctcgattta gagaaaagcc 600
 263 gtcaccaaatt ccaacagaca agtgagtctt ttcagctgtc aatcaccaaa gtcgagaagc 660
 264 ctgacaacgg aacctacagt tgtattgcaa agtcattctc gaaaacggag agcttggact 720
 265 ttacacctgat tgttaaagat aaaactgtgg gtgtaccaat agagcccatt attgctgcat 780
 266 gtgttgatgat ctttctgaca ttgtgctttg gactgattgc tagaagaaag aaaataatga 840
 267 agctctgcat gaaggataaa gacctcaca gtgaaacagc tctatgagaa agctgagatg 900

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/863,823

DATE: 06/08/2001

TIME: 17:03:04

Input Set : A:\LEX180 SEQ LIST.txt

Output Set: N:\CRF3\06082001\I863823.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date